www.philipscsi.com

Observation System VSS7390/00T Switcher

Installation Instructions

Let's make things better.

PHILIPS

Page
English 3
French 15
German 27
Spanish 39
Dutch 51
Italian 63
Portuguese 75
Danish 87
Finnish 99
Norwegian 111
Swedish 123
Greek 135

CONTENTS

SECTION 1
GENERAL

1 SAFETY PRECAUTIONS 4
1.1 IMPORTANT SAFEGUARDS 4
VENTILATION 4
CLEANING 4
DISPOSAL 4
1.1.1 FCC Information 4

SECTION 2
INSTALLATION

2 HARDWARE INSTALLATION 5
2.1 System cable 5
2.2 SYSTEM CONNECTION 5
2.2.1 Camera inputs (1 to 4) 5
2.2.2 Slave output 5
2.2.3 Aux. output/input 5
2.2.4 VCR in/output 6
2.2.5 Alarm output contact (N.O./N.C.) 6
2.2.6 RS232 6
2.2.7 Mains Power Connector 6
2.3 WIZARD INSTALLATION 6
2.4 SYSTEM SETTINGS 7
2.4.1 Main Menu 7
2.4.2 System Settings Menu 7
2.4.3 Sequence 7
2.4.4 Alarms 7
2.4.5 Aux output 8
2.4.6 VCR 9
2.4.7 Installation 9
2.4.8 Motion Sensitivity 10
2.4.9 Service 11
2.4.10 Disable System Setting Option 11
Menu structure 12

SECTION 3
TECHNICAL SPECIFICATIONS

ELECTRICAL 13
MECHANICAL 13

SECTION 1
GENERAL

1 SAFETY PRECAUTIONS

1.1 IMPORTANT SAFEGUARDS

1. Read these instructions.
2. Keep these instructions.
3. Comply with all warnings.
4. Follow all instructions.
5. Do not use this equipment near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. Both the wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this equipment during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
15. The equipment shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
16. The back of the monitor should only be removed by qualified maintenance and service personnel.
17. The lightning flash with arrowhead symbol, within a triangle, is intended to alert the user to the presence of uninstalled "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.
18. Caution: to reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.
19. The exclamation mark within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

VENTILATION

20. Keep ventilation openings free to avoid the monitor for overheating.
21. Do not place the monitor in the immediate vicinity of a heating source.
22. Do not install this equipment in a confined space such as a bookcase or similar unit.

CLEANING

23. You can clean the monitor with a moist fluff-free cloth or shammy leather cloth.

DISPOSAL

24. This monitor contains batteries. Do not dispose of these batteries with other solid waste. The batteries type AA (standard penlights) are located in the battery compartment at the bottom of your monitor.

CAUTION: Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.

Remark: Philips has a strong commitment towards the environment. This monitor has been designed to respect the environment as much as possible.

Note: Any change or modification not expressly approved by Philips of the equipment authorization could void the user's authority to operate the equipment.

For additional information or to speak to a representative, please contact the Philips Communication, Security & Imaging location nearest you or visit our web site at www.Philipscsi.com.

(See: Your Guide to Observation)

SECTION 2
INSTALLATION

2 HARDWARE INSTALLATION

This chapter describes the installation of the system hardware. For details of operation, see the supplied Operation Instructions.

Note: Ensure that you read all safety precautions.

2.1 SYSTEM CABLE

For the interconnection between the monitor and camera a 15m/45ft system cable is supplied with the camera. For an optimum picture and sound quality you should always use 4-wire dual twisted-pair cable when extending the connection. The maximum allowed cable length is 200m/600ft. Pay attention that the connectors are fixed to the cable corresponding to the figure below. (Figure 3.1) If the length of the system cable is over 200m/600ft (up to 300m/900ft), an interface box should be used to feed the accessory or camera (see optional accessories in the Operation Instructions).

Caution: The plugs used for the observation system have the same dimensions as standard telephone plugs. (RJ-11) Never connect telephone equipment or cable to the observation system.

2.2 SYSTEM CONNECTION

2.2.1 Camera inputs (1 to 4)

The cameras are connected to inputs 1 through to 4, depending on the number of cameras used.

2.2.2 Slave output

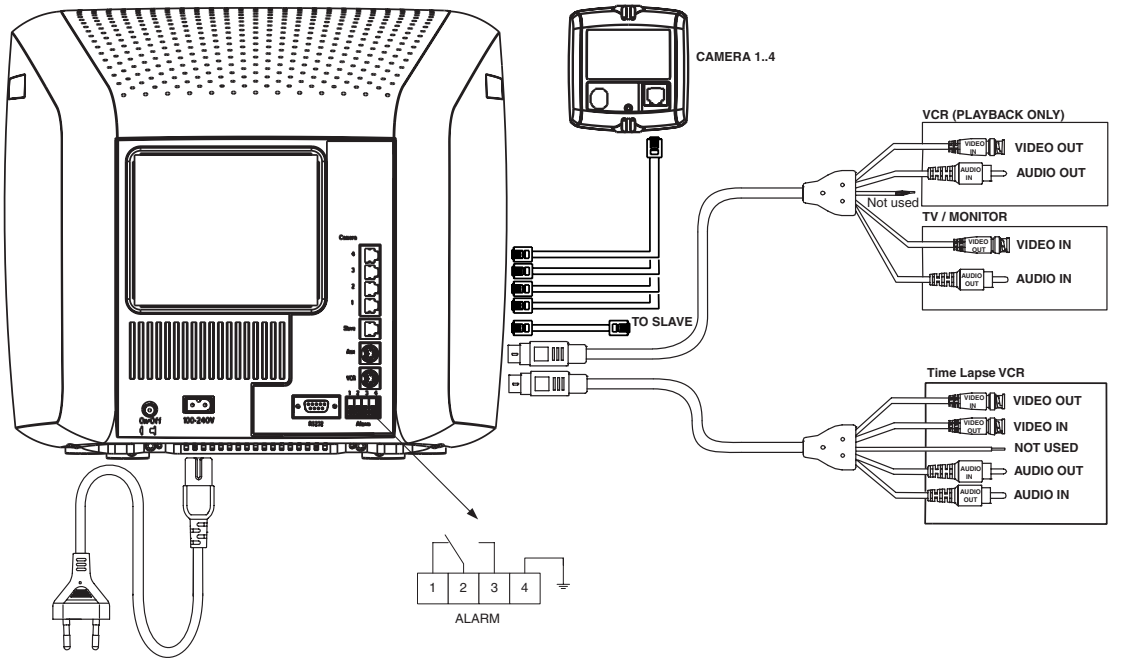
An output for a slave monitor (optional accessory) is available. This output can also be used to connect an optional Network Observation System.

2.2.3 Aux. output/input

You can configure an auxiliary output configuration via the menu option (see System settings). The auxiliary output provides loop-through from one of the 4 camera inputs or presentation mode where you can connect another video source to aux-in. It is possible to switch between this video source and one of the camera pictures.

Note: The supplied A/V cable can be used for Aux. output/input connection. However, if you are using two VCRs, you will need to order a second A/V cable (see your local supplier).

- Connect the Mini Din plug to the Aux. connector of the system monitor.



System Connection

- Connect the BNC connectors to the video in and video output of the VCR or CVBS monitor.
- Connect the RCA plugs to the Audio in and Audio out of your VCR or CVBS monitor.

2.2.4 VCR in/output

The VCR in/output allows you to connect a VCR to record camera images.

- Connect the Mini Din plug to the VCR connector of the system monitor.
- Connect the BNC connectors to the video in and video output of the VCR.

Attention: The 'Video In plug' of the A/V cable must be connected to the 'Video out' of the VCR. The 'Video Out plug' of the A/V cable must be connected to the 'Video In' of the VCR.

- Connect the RCA connectors to the Audio in and Audio out of your VCR.

Attention: The 'Audio In plug' of the A/V cable must be connected to the 'Audio out' of the VCR. The 'Audio Out plug' of the A/V cable must be connected to the 'Audio In' of the VCR.

2.2.5 Alarm output contact (N.O./N.C.)

In case of an alarm a potential free relay contact (Normally Open/Normally Closed; 24V/2A max.) can activate a VCR, siren or telephone selector. If the 'alarm output' is connected to the 'alarm input' of a video recorder, the recording speed will switch from time-lapse to normal speed in case of an alarm. This will result in the recording of more pictures per second. If the alarm is acknowledged by the user or automatically after 30 seconds the VCR switches back to time-lapse mode.

2.2.6 RS232

For service purposes to connect a PC/Laptop to install/configure the observation System.

2.2.7 Mains Power Connector

Ensure that you observe all safety precautions when connecting the mains power cable and switching on the power.

*Attention: When the configuration is changed, the system must be scanned again. Therefore **always** switch off the system before a camera or accessory is added or removed. After power up the system monitor will recognize the item that was added or removed.*

2.3 WIZARD INSTALLATION

When the system is powered up the FIRST time, the WIZARD setup option is displayed. The Installation Wizard will guide you through the most important settings of the system. Follow the screen options and select using the ROTARY wheel.

Note: When an additional camera or accessory is connected to the system, the WIZARD function is automatically enabled and you are guided through the appropriate menus at power up.

During startup the following screen is displayed:

```
PHILIPS
OBSERVATION SYSTEM
VERSION
x.x
```

The following menu is displayed after a number of seconds:

```
LANGUAGE
ENGLISH
FRANCAIS
DEUTCH
ITALIANO
PORTUGUES
ESPAGNOL
NEDERLANDS
```

Turn the ROTARY wheel until the required language is highlighted.

- Select your preferred language by pressing the ROTARY wheel.

The following menu is displayed:

```
CONFIGURATION
START INSTALLATION WIZARD?

YES                    NO
```

- Select YES to start the wizard setup. The wizard setup enables you to configure the system to your own settings and guides you through the process automatically.
- Select NO to enable the system to automatically configure itself to the factory default settings.

Note: For detailed information on the on screen menus refer to the System Settings Part.

When completed the following screen will appear:

CONFIGURATION
CONFIGURATION WIZARD
COMPLETED

2.4 SYSTEM SETTINGS

The system settings that can be configured to your own requirements. The system is setup via on-screen menus. To access the menu options:

- Press the MENU button. Toggle to switch on/off.

The ROTARY wheel controls the menu navigation as described in the Operation Instructions.

At the end of this chapter you can find the complete menu structure in a diagram.

2.4.1 Main Menu

After pressing the menu button the following menu will be displayed:

MAIN MENU	
SWITCH TO PLAYBACK VIEW	>
HISTORY	>
VIEW SETTINGS	>
TIME/DATE	>
SYSTEM SETTINGS	>

Note: SWITCH TO PLAYBACK VIEW, the HISTORY, VIEW SETTINGS and TIME/DATE functions are described more detailed in the Operation Instructions.

Remark: After entering the system settings, alarms are disabled.

2.4.2 System Settings Menu

With the System settings menu you can configure the system according to your own requirements. Configurations that can be changed are:

Select system settings from the main menu and the following menu will appear:

MAIN MENU
SYSTEM SETTINGS
SEQUENCE
ALARMS
AUX-OUTPUT
VCR
INSTALLATION
SERVICE

2.4.3 Sequence

You can change the sequence dwell time from 02 sec to 30 secs. Sequence/dwell time is the length of time an image is displayed before the next image in the sequence is shown.

MAIN MENU		
SYSTEM SETTINGS		
SEQUENCE		
DWELL TIME	05	SEC

2.4.4 Alarms

The Alarm Profiles can be accessed from the Alarm menu.

MAIN MENU		
SYSTEM SETTINGS		
ALARMS		
ALARM DURATION	05	SEC
ALARM PROFILE DAY		
ALARM PROFILE NIGHT		
EVENT REPLAY		

ALARM DURATION This defines the period of time (5 sec. to 15 min.) that the alarm beeper and the alarm relay are activated, unless the operator acknowledges the alarm.

ALARM PROFILE DAY

MAIN MENU			
SYSTEM SETTINGS			
ALARMS			
ALARM PROFILE DAY			
EXIT DELAY 0 SEC			
TITLE	MOTION	ALARM-BOX	DOORBELL
1	OFF	OFF	OFF
2	OFF	OFF	ON
3	OFF	OFF	OFF
4	OFF	OFF	OFF

EXIT DELAY Alarm Exit Delay (0 sec. to 4 min.) is the amount of time before alarm profile night will be activated. (i.e. time for a person to exit a room before the night alarm profile is active after switching over from day to night).

MOTION The camera detects motion within the defined motion area.

ALARM BOX An alarm box is an optional accessory that enables you to activate an alarm input (e.g. PIR detector).

DOOR BELL A door bell (Intercom Box) is an optional accessory that enables you react to persons who enter by pressing the respective door bell. Pressing the doorbell will sound the system buzzer and register an event.

ALARM PROFILE NIGHT

MAIN MENU
SYSTEM SETTINGS
ALARMS

ALARM PROFILE NIGHT

ENTRY DELAY		0 SEC	
DISPLAY		ON/OFF	
TITLE	MOTION	ALARM-BOX	DOORBELL
1	OFF	OFF	OFF
2	OFF	OFF	ON
3	OFF	OFF	OFF
4	OFF	OFF	OFF

ENTRY DELAY An alarm generated in night mode will be processed by the system after the entry delay time is expired (programmable between 0 sec. and 4 min.). If the system switches over from night to day during this entry delay time a generated alarm will not be processed. Exceptions are special alarms, which always will be processed.

DISPLAY In night mode, the display option automatically switches the monitor screen display off when the OFF option is selected.

The other options are the same as for the ALARM PROFILE DAY.

2.4.5 Aux output

From the system settings menu you can configure the system aux-output.

MAIN MENU
SYSTEM SETTINGS

AUX-OUTPUT

PRESENTATION MODE	ON
AUX-OUT	1
PRESENTATION ON SLAVE	OFF
SEQUENCE	ON
SEQUENCE WITH	2
DWELL TIME	03 SEC
AUDIO SOURCE	AUX-IN

PRESENTATION MODE An advanced feature of this system is the 'presentation mode'.

OFF - The auxiliary output provides loop-through from one of the 8 camera inputs, depending of the AUX-OUT setting.

ON - The auxiliary input allows you to view images from an additional VCR. These images can consist of a presentation movie sequenced with live camera images.

Remark: When a Network Observation System is connected to the slave output of the system monitor it is not possible to display the presentation mode on the slave monitor.

AUX-OUT When presentation mode is OFF, one of the eight camera outputs can be set on the AUX-output.

When presentation mode is ON, the AUX-OUT option is disabled.

PRESENTATION ON SLAVE If presentation on slave is ON it is possible to display presentation mode on the slave monitor as well as on the AUX-output. This option is forced to OFF by the system when a Network Observation System is connected to the slave output of the system monitor.

SEQUENCE	The presentation is sequenced with a live camera image when selected to ON.
SEQUENCE WITH 2	Presentation is sequenced with the selected live camera image (in this case with camera number 2)
DWELL TIME	Change the image sequence dwell time (programmable between 02 and 30 secs)
AUDIO SOURCE	Selected Audio source is automatically displayed.

2.4.6 VCR

You can setup the VCR from the system menu:

```
MAIN MENU
SYSTEM SETTINGS

VCR
PLAYBACK DETECTION ON
```

PLAYBACK DETECTION	By connecting the input and output from the same VCR you can have an automatic playback detection option. ON - This allows you to switch on the VCR playback and the system will automatically detect the VCR has been switched on for playback. OFF - The playback detection is disabled. You can select the VCR playback by accessing the main menu and selecting "SWITCH TO PLAYBACK VIEW"

2.4.7 Installation

The Installation group contains all installation-related items, such as language, system beep and camera setting.

```
MAIN MENU
SYSTEM SETTINGS

INSTALLATION
LANGUAGE                ENGLISH
BEEP VOLUME             OFF
EXTERNAL CONTROL
SETUP CAMERA            1
SETUP CAMERA            2
SETUP CAMERA            3
SETUP CAMERA            4
```

LANGUAGE	You can choose from English, French, German, Spanish, Dutch, Italian and Portuguese. The menus are then displayed in the selected language.
BEEP VOLUME	Allows you to select the system audio beep high, medium, low or off.
EXTERNAL CONTROL	Allows you to control the system via slave or IR Remote Control.

EXTERNAL CONTROL

```
MAIN MENU
SYSTEM SETTINGS
INSTALLATION

EXTERNAL CONTROL
REMOTE CONTROL          OFF
SYSTEM ADDRESS          1
CONTROL AT SLAVE        OFF
```

REMOTE CONTROL Can be selected ON or OFF to allow control of the system from the IR Remote Control accessory.

SYSTEM ADDRESS Can be selected from an address of 1 to 8 to avoid multiple system switching with one IR Remote Control.

CONTROL AT SLAVE Can be selected ON or OFF to allow control of the system from the Slave Monitor accessory.

SETUP CAMERA

For every connected camera a camera configuration menu can be selected (activated).

```
MAIN MENU
SYSTEM SETTINGS
INSTALLATION

SETUP CAMERA 1
TITLE                          1
BACKLIGHT COMPENSATION         OFF
WHITE BALANCE                  AUTO
FIELD OF VIEW                  1
MICROPHONE                     ON
MOTION AREA
MOTION SENSITIVITY
DISPLAY MOTION                 OFF
```

TITLE Allows you to enter a camera title (max. 8 characters).

BACKLIGHT COMPENSATION (BLC) Backlight compensation:

BLC OFF - The camera Automatic Light Control (ALC) responds to the average content of the entire video picture.

BLC ON - The camera ALC responds pre-dominantly to the center of the picture, shown by the diagram. If an object of interest falls inside the BLC area, its visibility will remain relatively constant even if the background illumination varies.

WHITE BALANCE White balance is where the camera automatically matches the video color to the white (reference) area of the image. The different options are:

FIXED - keep the white balance settings which are currently used.

AUTO - White balance is automatically set.

RECALCULATE - Set the white balance to automatic for 5 seconds and then back to fixed.

Note: Recalculate is only available when current setting is FIXED.

FIELD OF VIEW (Range 1: 1.33: 1.66 : 2: default is 1). Adjust the field of view using digital zoom in the camera to ensure complete coverage of the object within the viewing angle of the camera lens.

MICROPHONE Select the microphone ON/OFF.

MOTION AREA Allows you to define the area size for motion detection.

MOTION SENSITIVITY Allows you to define the sensitivity of motion detection. This enables you to detect objects like a person running across the motion area but will not raise an alarm if there is a small movement (detect humans but no birds).

DISPLAY MOTION This allows you to view where the motion has been detected by displaying a series of movement indicators on the monitor screen.

2.4.8 Motion Sensitivity

```
MAIN MENU
SYSTEM SETTINGS
INSTALLATION
SETUP CAMERA 1

MOTION SENSITIVITY 1
LEVEL                  ▬
MOTION INDICATOR       ▬
RESET INDICATOR
```

LEVEL Sets the level (the amount) of motion detection.

MOTION INDICATOR Displays the set level of motion detection.

RESET INDICATOR Resets the motion detection indicator to the current setting.

Set motion alarm as follows:

1. Reset indicator.
2. Set level on minimum.

3. Walkthrough motion area (motion indicator indicates level of motion).
4. Set level just below the level of motion indication.

2.4.9 Service

The SERVICE menu contains all items relevant for servicing your observation system: resetting the system to factory defaults and the internal diagnose.

```
MAIN MENU
SYSTEM SETTINGS

SERVICE
SYSTEM DIAGNOSE
FACTORY DEFAULTS
```

SYSTEM DIAGNOSE	With this option you can obtain an overview of the internal diagnose settings. (Consult the service manual for more information).
FACTORY DEFAULTS	With this option you can set the complete system to the factory defaults. All current settings will be lost, (this will take a few seconds). Language selector and Wizard setup will be activated again.

```
MAIN MENU
SYSTEM SETTINGS
SERVICE

FACTORY DEFAULTS
CURRENT SETTINGS
WILL BE LOST
CONTINUE?
NO                    YES
```

2.4.10 Disable System Setting Option

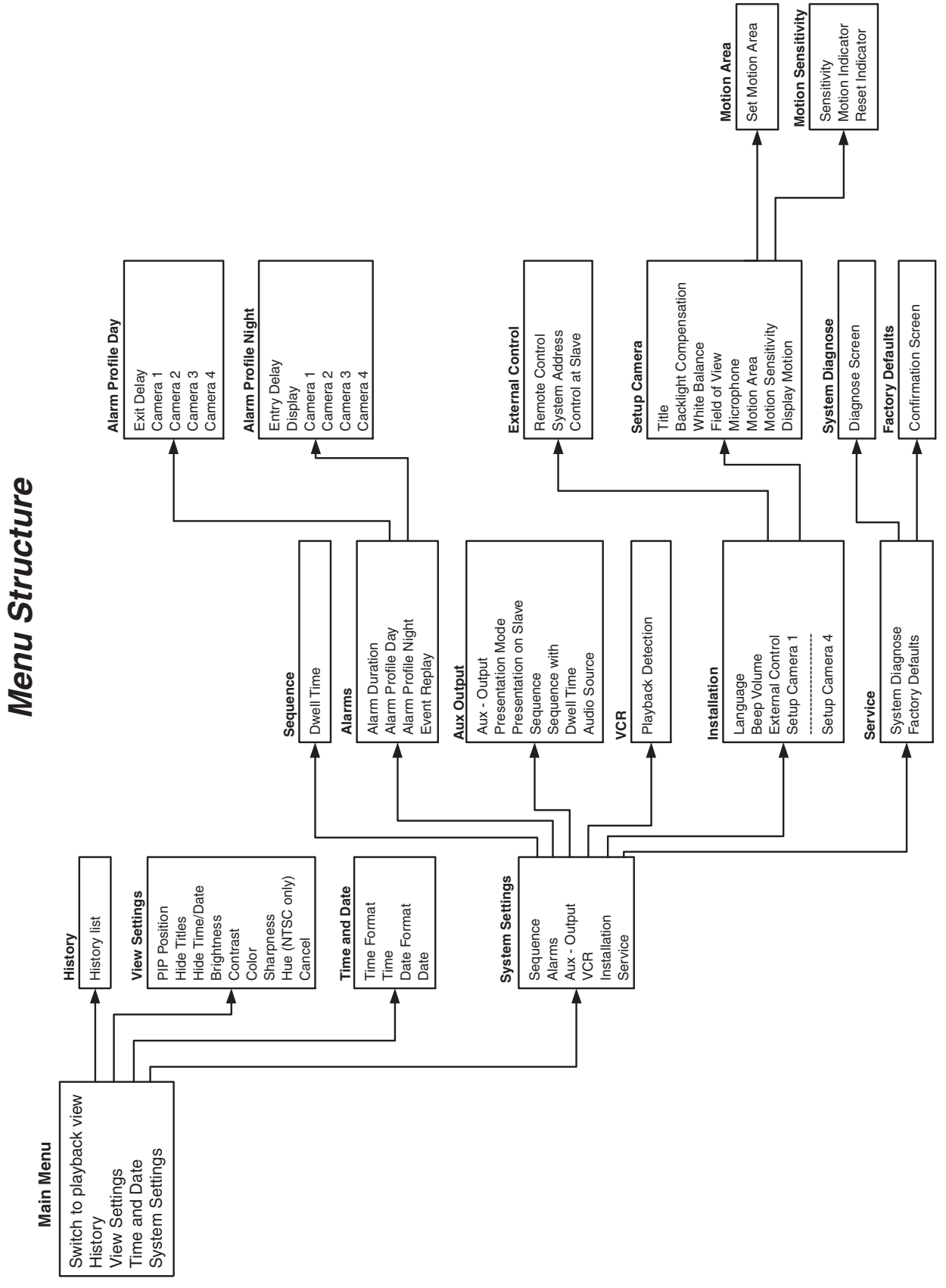
You can disable the system setting option, ensuring operators do not make inadvertent system changes.

To menu lock the system settings option:

- Switch the complete system off.
- Switch the system on while keeping the PIP and PIP Swap buttons pressed at the same time. Continue to keep the buttons pressed until the start-up screen appears.

System settings are removed from the main menu.

Note: Follow the same procedure to unlock the system settings menu.


Menu Structure
Main Menu
Switch to playback view
History
View Settings
Time and Date
System Settings
History
History list
View Settings
PIP Position
Hide Titles
Hide Time/Date
Brightness
Contrast
Color
Sharpness
Hue (NTSC only)
Cancel
Time and Date
Time Format
Time
Date Format
Date
System Settings
Sequence
Alarms
Aux - Output
VCR
Installation
Service
Sequence
Dwell Time
Alarms
Alarm Duration
Alarm Profile Day
Alarm Profile Night
Event Replay
Aux Output
Aux - Output
Presentation Mode
Presentation on Slave
Sequence
Sequence with
Dwell Time
Audio Source
VCR
Playback Detection
Installation
Language
Beep Volume
External Control
Setup Camera 1

Setup Camera 4
Service
System Diagnose
Factory Defaults
Alarm Profile Day
Exit Delay
Camera 1
Camera 2
Camera 3
Camera 4
Alarm Profile Night
Entry Delay
Display
Camera 1
Camera 2
Camera 3
Camera 4
External Control
Remote Control
System Address
Control at Slave
Setup Camera
Title
Backlight Compensation
White Balance
Field of View
Microphone
Motion Area
Motion Sensitivity
Display Motion
Motion Area
Set Motion Area
Motion Sensitivity
Sensitivity
Motion Indicator
Reset Indicator
System Diagnose
Diagnose Screen
Factory Defaults
Confirmation Screen

SECTION 3
TECHNICAL SPECIFICATIONS

APPROVALS

Safety

Europe	EN60065
USA	UL6500 UL & cUL listed
Australia	C-Tick

Electro Magnetic Compatibility (EMC)

Europe	EN55022 Class B, EN50130-4
USA	FCC part 15, class B
Australia	AS/NZS 3548

ELECTRICAL

Picture tube	14” (viewable picture area 13”), 90° deflection, 0.65 mm pitch TV grade
Resolution	PAL: 320 TVL; NTSC: 290 TVL
TV standard	PAL: 625 lines, 50 Hz, 2:1; NTSC: 525 lines, 60 Hz, 2:1
Mains supply voltage	Universal input, 100 - 240 VAC +/-10%, 50/60 Hz
Power consumption	<75 W max. (without cameras)
Camera power supply	24 to 32 VDC, short-circuit protected
System synchronization	Monitor locks to the mains
	Cameras lock to H and V of the monitor
Camera inputs	4 (system interface)
Slave monitor output	1 (system interface)
Microphone	Sensitivity 46dB SPL @ 1kHz
Audio speaker	500 mW rated, 1000 mW max.
Frequency range	300 - 3kHz

Alarm output screwblock

4-pole screw-block	N.O./N.C. contact + system ground
Contact rating	24VAC or DC, 2 A (resistive load)

AUX/VCR

Video input	BNC (1 Vpp, input impedance 75 Ohm)
Audio input	RCA (0.5 Vpp, input impedance 10 kOhm)
Video output	BNC (1 Vpp, output impedance 75 Ohm)
Audio output	RCA (0.5 Vpp, output impedance 1 kOhm)

System cable

	4-wire dual twisted pair cable
	1 twist/inch, loop resistances max 16 ohm at 100 meter

MECHANICAL

Weight	approx. 9.5 kg
Dimensions (hxwxd)	325 x 364 x 368 mm
Ambient temperature	
Operating	+5°C…+45°C
Storage	-25°C…+70°C
Ambient humidity	5% to 95% RH

Specifications may change without notice.

If you have any problems, contact your dealer.

3122 165 22151 01-17

© 2001 by Philips Electronics N.V.
© 2001 by Philips Communication, Security & Imaging, Inc.
All Rights Reserved. Philips® is a registered trademark of Philips Electronics N.A. Corp.
Data subject to change without notice

www.philipscsi.com

Observation System VSS7390/00T Switcher

Operation Instructions

Let's make things better.

PHILIPS

Page
English 3
French 11
German 21
Spanish 31
Dutch 41
Italian 49
Portuguese 57
Danish 67
Finish 75
Norwegian 83
Swedish 91
Greek 99

CONTENTS

SECTION 1 - GENERAL

1 SAFETY PRECAUTIONS 4
1.1 IMPORTANT SAFEGUARDS 4
VENTILATION 4
CLEANING 4
DISPOSAL 4
1.1.1 FCC Information 4
1.2 Introduction 5
1.3 Accessories 5

SECTION 2 - OPERATION

2 BASIC OPERATION 6
2.1 Operator Controls 6
2.1.1 Power Switch 6
2.1.2 Day/Night 6
Day mode 6
Night mode 6
2.1.3 Volume 6
2.1.4 Talk 6
2.1.5 Action 7
2.1.6 ROTARY Wheel 7
2.1.7 Menu 7
2.1.8 Sequence 7
2.1.9 Zoom 7
2.1.10 Picture-In-Picture (PIP) 7
2.1.11 PIP Swap 7
2.2 MENU OPERATION 7
MENU NAVIGATION 7
2.2.1 Switching between playback and live 8
2.2.2 History 8
2.2.3 View settings menu 8
2.2.4 Time/Date 8
2.2.5 System Settings 8
2.3 Alarm functions 9
Monitor in day mode: 9
Monitor in night mode (display ON): 9
Monitor in night mode (display OFF): 9
2.3.1 Reset Alarm 9
2.3.2 Recorded Alarms 9
2.3.3 Special Alarms 9
2.4 Doorbell Operation 9

SECTION 1
GENERAL

1 SAFETY PRECAUTIONS

CAUTION

RISK OF ELECTRIC
SHOCK. DO NOT OPEN!

1.1 IMPORTANT SAFEGUARDS

1. Read these instructions.
2. Keep these instructions.
3. Comply with all warnings.
4. Follow all instructions.
5. Do not use this equipment near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. Both the wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this equipment during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
15. The equipment shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the equipment.
16. The back of the monitor should only be removed by qualified maintenance and service personnel.
17. The lightning flash with arrowhead symbol, within a triangle, is intended to alert the user to the presence of uninstalled "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.
18. Caution: to reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.
19. The exclamation mark within a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

VENTILATION

20. Keep ventilation openings free to avoid the monitor for overheating.
21. Do not place the monitor in the immediate vicinity of a heating source.
22. Do not install this equipment in a confined space such as a bookcase or similar unit.

CLEANING

23. You can clean the monitor with a moist fluff-free cloth or shammy leather cloth.

DISPOSAL

24. This monitor contains batteries. Do not dispose of these batteries with other solid waste. The batteries type AA (standard penlights) are located in the battery compartment at the bottom of your monitor.

CAUTION: Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.

Remark: Philips has a strong commitment towards the environment. This monitor has been designed to respect the environment as much as possible.

1.1.1 FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/ TV technician for help.**

Note: Any change or modification not expressly approved by Philips of the equipment authorization could void the user's authority to operate the equipment.

For additional information or to speak to a representative, please contact the Philips Communication, Security & Imaging location nearest you or visit our web site at www.Philipscsi.com.

(See: Your Guide to Observation)

1.2 INTRODUCTION

Read these instructions carefully.

For details on the installation, see Installation Instructions supplied.

The Philips Observation System is a sophisticated, easy-to-operate observation and security system. Up to 4 cameras can be observed.

The system also supports the following features:

Day/Night: By pressing just one button you can set the system in two different modes to activate the day or night alarm profile of your system.

ROTARY wheel By simple rotating and pressing the ROTARY wheel you can operate and control the complete system in a very convenient way.

Sequence Automatic sequence camera switching, with dwell time adjustable

On Screen Display Operation and programming of the system is performed through On Screen Display (OSD) menus. With these easy to use menus you can setup the system to your own needs.

Installation wizard The installation wizard guides you through the system step by step.

Presentation mode An advanced feature is to show presentation movies with the possibility to sequence the presentation with a live camera image.

Motion detection The observation cameras automatically detect motion within a defined motion area.

Talk function Built-in loudspeaker and microphone for intercom option. Audio from the cameras is standard supported via the dual twisted pair cables.

Action function With the action feature you can control external devises e.g. to remotely open a door.

PIP (Picture-In-Picture) Provides a small camera picture within a full screen camera picture.

Zoom function With the zoom function, the selected camera picture is zoomed x 2 and displayed as a full screen image.

Playback detection When you switch on the VCR playback, the system will automatically detect the VCR and will display the VCR images.

History list The history table shows all events that have been caused by an alarm, doorbell, motion or a special alarm.

1.3 ACCESSORIES

The system can be extended by one or more system accessories. (For details see Your Guide To Observation):

- Cameras (to a maximum of 4)
- Infra Red Remote Control
- (Time lapse) Video Recorder (VCR)
- Cable extension box
- Intercom box
- Alarm/Action box
- Interface box
- Slave monitor (to a maximum of 2)
- Network Observation System
- Protective camera housing
- Outdoor camera housing
- Audio/Video (A/V) cable
- Audio/Video (A/V) extension cable

SECTION 2
OPERATION

2 BASIC OPERATION

Operation and programming of the system is performed through On Screen Display (OSD) menus. With these easy to use menus you can setup the system to your own needs.

2.1 OPERATOR CONTROLS

The functional operation of the Philips Observation System Switcher is as follows.

2.1.1 Power Switch

Read the instructions, before putting your system in operation.

- Toggle the power switch located at the rear of the monitor to switch on/off the system. A LED on the front of the monitor indicates the system mode.

The following text appears on the monitor screen:

(x.x = version number)

After a while the camera image appears on the monitor screen.

2.1.2 Day/Night

The system can be set in two different modes, DAY Mode and NIGHT Mode. These two modes are setup in the System setup menus and allow different configurations for day operation and night-time operation. For example, at night-time operation, the display picture can be switched off, alarm inputs enabled etc.

Day mode
In the day mode the image and sound of the monitor are switched on and the day alarm profile is enabled.

Night mode
In the Night mode, the night alarm profile is enabled. Availability of image and audio is configured in the system settings.

A moon symbol is visible on the screen when you are in night mode.

Note that if the video and audio of the monitor are set off in the night mode, the camera continues to transmit images and sound to the VCR, slave and aux. output.

Remark: By switching over from day to night the actual night profile is activated after the programmed exit delay time is expired. The LED colour changes accordingly.

An alarm generated in night mode will be processed by the system after the entry delay time is expired. If the system switches over from night to day during this entry delay time a generated alarm will not be processed. Exceptions are special alarms, which always will be processed .

LED indication is as follows:

LED is OFF	Observation System off
LED is Green	Observation System is in DAY MODE
LED is Amber	Observation System is in NIGHT MODE with the screen display function disabled.
LED is Red	Observation System is in NIGHT MODE with the screen display function enabled.
LED is blinking	Alarm indication.

2.1.3 Volume

To change the audio volume of the cameras, intercom boxes and VCR, push the VOLUME button (it will pop out) and rotate as required. Note that the “beep” volume is controlled via the system setup menu.

2.1.4 Talk

Select the camera designated to the intercom box and press TALK to speak through the intercom (optional). Release the button to allow your visitor to speak to you.

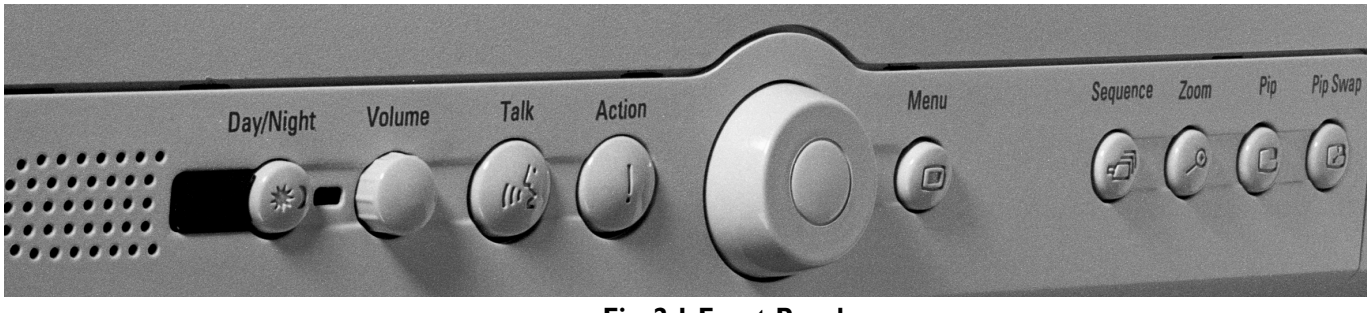


Fig. 2.1 Front Panel

The talk function is only functional in combination with an intercom box (optional).

2.1.5 Action

Select the camera designated to the action box and press the ACTION button to control external devices, (for example to open a door). As long as ACTION is pressed, a buzzer sounds and the action symbol is visible on the monitor.

Remark: The action button is only functional in combination with an Alarm/Action box (optional).

2.1.6 ROTARY Wheel

During normal operation the ROTARY wheel is used to select cameras and to acknowledge alarms.

Turn the ROTARY wheel to select the previous or next camera. Audio of the selected camera is activated.

2.1.7 Menu

After pressing the MENU button, the main menu will be displayed. For detailed description of the menu operation see Chapter 2.2.

2.1.8 Sequence

The monitor displays the connected camera images in sequence. The dwell time (sequence time) is setup in the System setup menus.

The camera title and the sequence symbols are visible on the screen.

Remark: This mode is only functional when the observation system has more than one camera.

2.1.9 Zoom

The image will be displayed in full screen and is digitally zoomed two times. The zoom button toggles the zoom mode on/off. If the zoom mode is active, turning the ROTARY wheel scrolls the zooming area through the nine pre-defined positions. A zoom symbol is displayed. The zoom function is active for 30 secs or until the zoom button is pressed before the 30 sec period

Remark: This mode is only functional when the respective connected camera has zoom function.

2.1.10 Picture-In-Picture (PIP)

The PIP button toggles the Picture-In-Picture on/off.

Keeping the PIP button pressed while turning the rotary wheel will scroll through all connected cameras.

Keeping the PIP select button pressed while pressing the sequence button will toggle the sequence setting of the PIP picture on/off.

The PIP position can be changed via the View Settings menu.

2.1.11 PIP Swap

The PIP Swap button toggles the PIP image with the full screen image.

2.2 MENU OPERATION

Press the MENU button to display the on screen MAIN menu. Toggle to switch on/off.

Remark: If no selection is made within 30 seconds the on screen display menu is automatically switched off.

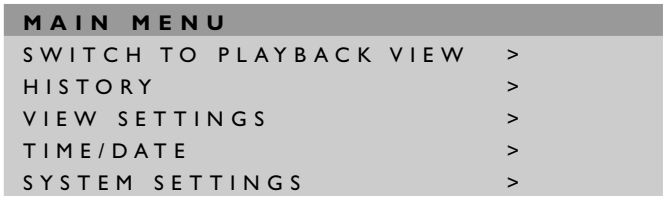
MENU NAVIGATION

Follow the screen options and select using the ROTARY wheel.

The ROTARY wheel controls the menu navigation as follows:

- To scroll up/down the menu, turn the ROTARY wheel to the required item. The highlighted text indicates the selected menu option.
- Pressing the ROTARY wheel will either show the available options (e.g. ON or OFF), or display the sub-menu.
- To decrease, increase or change the value of a selected menu item, turn the ROTARY wheel and acknowledge by pressing the ROTARY wheel.
- To return to the previous menu, turn the ROTARY wheel until the previous menu title is highlighted and acknowledge by pressing the ROTARY wheel.

After pressing the menu button the following menu will be displayed:



2.2.1 Switching between playback and live

SWITCH TO PLAYBACK VIEW You can switch between playback view (looking at images from a VCR) or live view (looking at live camera images)

2.2.2 History

The history table shows all events that have caused by an alarm, doorbell, motion or special alarm.

MAIN MENU		
SWITCH TO PLAYBACK VIEW		>
HISTORY		>
EVENT SOURCE	TIME	DD-MM
MOTION CAMERA1	09:23	24-01

When you select HISTORY a list with the kind of alarm (event), the source, time and date is displayed.

A maximum of 20 events are stored in the history list (first in, first out). You can scroll through the history list by turning the ROTARY wheel.

Events that are recorded are:
- Alarm
- Motion
- Tamper
- Doorbell
- Fail
- Power

Alarm sources are:
- Camera - name
- Intercom (only in case of Fail)
- RCB (only in case of Fail)
- Action/Alarm box (only in case of Fail)

2.2.3 View settings menu

The view settings menu enables you to change the display on your monitor.

MAIN MENU	
VIEW SETTINGS	
PIP POSITION	-
HIDE TITLES	NO
HIDE TIME/DATE	NO
BRIGHTNESS	
CONTRAST	
COLOR	
SHARPNESS	
CANCEL	

The following view settings can be altered:

PIP POSITION Set PIP (Picture-In-Picture) to top right, bottom right, top left, bottom left (shown by the quad image moving within the symbol)

HIDE TITLES Show or hide camera names. Options are NO/YES.

HIDE TIME/DATE Show or hide time and date. Options are NO/YES.

BRIGHTNESS Adjust the screen image brightness.

CONTRAST Adjust the screen image contrast.

COLOR Adjust the screen image color.

SHARPNESS Adjust the screen image sharpness.

HUE (NTSC only) Adjust the screen image hue.

CANCEL Cancel any changes made, and return to original settings.

2.2.4 Time/Date

The time/date menu enables you to change the time and date display on your monitor.

MAIN MENU	
TIME/DATE	
HOUR FORMAT	12H
TIME	01:16:01am
DATE FORMAT	DD-MM-YYYY
DATE	01-01-2001

HOUR FORMAT Allows you to set the hour format (12H/24H option).

TIME Allows you to set the system time.

DATE FORMAT Allows you to set the date format (DD/MM/YYYY or MM/DD/YYYY or YYYY/MM/DD).

DATE Allows you to set the system date.

2.2.5 System Settings

System settings are described in the Installation Instructions.

2.3 ALARM FUNCTIONS

The alarm function can be enabled or disabled in the alarm profile. When motion is detected by a camera or when an alarm is triggered by an Action/Alarm box (optional), the alarm function is activated.

In case of an alarm:

Monitor in day mode:

- The monitor selects the respective camera input of the Alarm/Action box.
- The blinking alarm symbol is displayed on the monitor screen.
- The power LED starts to blink.
- The alarm output contact is activated (horn, siren or telephone selector) and a buzzer sounds for default 30 secs (programmable range from 5 sec. to 15 min.).
- The history table is updated with the alarm event.
- Alarm event string is visible at the bottom of the monitor screen until alarm is acknowledged.

Monitor in night mode (display ON):

Same as in day mode with the exception of:

- An alarm generated in this night mode will be processed by the system after the entry delay time is expired. If the system switches over from night to day during this entry delay time a generated alarm will not be processed. Exceptions are special alarms, which always will be processed.

Monitor in night mode (display OFF):

Same as in night mode (display ON) with the exception of:

- The buzzer does not sound.
- To show or reset alarm, switch over from night mode to day mode.

2.3.1 Reset Alarm

The alarm resets whenever the ROTARY wheel is pressed. The monitor returns to the status before the alarm occurred.

When the cause of the alarm has not been eliminated, the monitor continues to display the alarm symbol.

When the ROTARY wheel is not pressed during an alarm, the monitor automatically acknowledges the alarm after default 30 secs (programmable range from 5 sec. to 15 min.). The monitor returns to the status before the alarm occurred. The blinking alarm message is displayed until the ROTARY wheel is pressed.

2.3.2 Recorded Alarms

During playback the recorded alarms will be visible. Should an alarm be received during playback of a tape, the system will return to live mode.

2.3.3 Special Alarms

A special alarm is given in case of:

TAMPER	An accessory housing has been opened.
FAIL	A failure in the system communication to accessories or camera has been found.

- Press the ROTARY wheel to stop the alarm.

Detailed information of the alarm is stored in the history table.

2.4 DOORBELL OPERATION

If the doorbell button on the intercom box is pressed the following functions are activated:

- The monitor automatically select the camera input to which the intercom box is connected
- The blinking bell symbol is displayed on the monitor screen as long as the door bell button is pressed
- The history table is updated

Remark: The doorbell function is only functional in combination with an intercom box (optional).

3122 165 22161 01-17

© 2001 by Philips Electronics N.V.
© 2001 by Philips Communication, Security & Imaging, Inc.
All Rights Reserved. Philips® is a registered trademark of Philips Electronics N.A. Corp.
Data subject to change without notice